TYAN

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Server Solutions

Thunder K8SRE

S2891

NVIDIA nForce Professional

AMD 64 Opteron

Dual AMD Opteron™ Server Platform
1U Rack Server Optimized

- Dual AMD Opteron™ 200 Series Processor
- (1) x16 PCI Express slot
- (1) Tyan TARO™ SO-DIMM connector supports U320 SCSI card (optional) or SATA cards with RAID 0,1, 0+1 (optional)
  - on dedicated PCI-X 133 bus
- (1) PCI-X 100/66MHz slot
- Two Integrated dual port SATA II Controllers support up to 4 drives
- (2) GbE LAN ports using one Broadcom® 5704C network controller

(Specifications are subject to change without notice. Items pictured may only be representative.)

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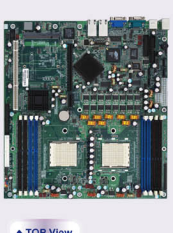
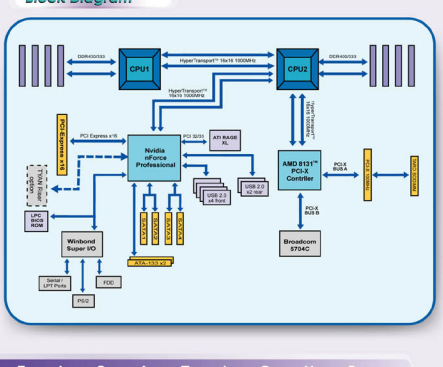


▲TOP View

Block Diagram



S P E C I F I C A T I O N S

Processors
- Two PGA 940-pin ZIF sockets
- Two onboard 4-phase VRM
- Supports one or two AMD Opteron™ processors
- Scalable 32bit & 64bit computing
- Integrated 144-bit DDR Memory Controller (128bit + 16bit ECC)

Chipset
- AMD-8131™ PCI-X Tunnel
- NVIDIA nForce Professional 2200 (CrushK8-04 Pro)
- Winbond W83627HF Super I/O
- Analog Devices ADT7463 Hardware Monitoring IC

Memory
- Eight 184-pin 2.6V DDR DIMM sockets
- Dual channel memory bus
- Maximum 16GB of Registered (ECC) DDR400/333/266 memory

Expansion Slots
- One PCI Express x16 slot with riser support for the following configurations
  - One 16 slot OR
  - Future multiple slot riser support in development (check TYAN.COM for updates
- One Tyan TARO™ SO-DIMM 100 MHz (PCI-X B)
- One PCI-X 100MHz slot (Bridge B)
- Total of two usable in pedestal chassis or max four slots in rackmount configuration

Integrated Audio
- One floppy connector supports up to two drives
- One parallel port header and two serial (one connector, one header)
- Six USB 2.0 ports (Two rear connector & four front panel headers)
- One 15-pin VGA connector
- PS/2 mouse and keyboard connectors

Integrated Enhanced IDE Controller
- Two IDE dual-drive ports for up to four EIDE devices
- Supports for ATA-133 IDE drives and ATAPI devices

Integrated SATAII Controllers
- Two Integrated dual port SATA II ontrollers
- Four SATA connectors support up to four drives
- Supports 3.0Gb/s per port
- NvRAID v2.0 support
- RAID 0, 1, 0+1

Integrated Video Controller
- ATI® RAGE™ XL PCI VGA w/ 8MB onboard memory

Integrated LAN Controllers
- One Broadcom® BCM5704 Dual Port GbE
  - Connected to PCI-X bus A (133MHz)
  - Two RJ-45 LAN connectors with LEDs
  - Two front panel LED headers

System Management
- Total ten 3-pin fan headers with PWM support
  - Seven fan headers with tachometer (four from ADT7463 three from W83627HF)
- One 2-pin Chassis Intrusion header
- Temperature, voltage and fan monitoring
- Port 80h LED 7-segment display

Intelligent Platform Management Interface Header
- Tyan Server Management Daughter card (Optional) supports features listed below via IPMI header
- QLogicTM Zircon Basebcard Management Controller (BMC) based on powerful ARM7 technology
- Tailored for IPMI 1.5 Spec.
- Supports KCS and BT styles
- Flexible Windows or Linux Management Solution
- Supports RMCP and SNMP protocols
- Supports ASF standard and EMP
- I2C serial multi-master controllers and UARTs
- Built-in IPMB connector
- Remote power on/off and reset support (IPMI-over-LAN)

BIOS
- Phoenix BIOS on 8Mbit LPC Flash ROM
- ACPI 2.0 and SRAT support
- PXE via Ethernet, USB device boot
- SMBIOS 2.3.1, BBS 1.1 compliant
- Headless Operation via serial console redirect
- 48-bit LBA Support

Form Factor
- SSI EEB
- SSI 3.0/3.51 (24 + 8pin) power connectors
- Serial (one) and VGA (one) connectors
- Stacked USB 2.0 (two) connectors
- Stacked PS/2 keyboard and mouse connectors
- Two RJ-45 LAN connector with LEDs

Regulatory
- FCC Class B (DoC)
- European Community CE (DoC)

TYAN COMPUTER CORP.

Tyan Computer USA
Tel: +1-510-651-8868
Fax: +1-510-651-7688

Tyan Computer Taiwan
Tel: +886-2-8751-2200
Fax: +886-2-8797-2767

Tyan Computer Germany
Tel: +49-8136-9395-30
Fax: +49-8136-9395-44

Tyan Computer UK
Tel: +44-1256-397030
Fax: +44-7836-6800-23

Tyan Computer China
Tel: +86-10-8255-5015
Fax: +86-10-8281-8204

Tyan Computer Japan
Tel: +81-3-3837-7580
Fax: +81-3-3837-7581